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## Message from the Director General

### Welcoming our new team member for environment and sustainability



We are happy to welcome **Stanislav Jas**, our new IDF Officer for environment and sustainability-related issues who joined our team at the beginning of this New Year, helping us to focus on these important issues from the off-set.

Stanislav has already taken over leadership of the Global Dairy Agenda initiative from Brian Lindsay (former Chair) and will be collaborating progressively closely with the Standing Committee on Environment.

Stan was born and grew up in the former Czechoslovakia, nowadays known as the Czech Republic. He has a solid farming background and completed his university studies as Agronomist at Mendel University in Brno (CZ) before obtaining a subsequent European Master's Degree at Ecole Supérieure d'Agriculture d'Angers, France in 2004. Stan has acquired sound practical experience with agricultural research from different livestock sectors including bee keeping, as well as from the winemaking industry.

Prior to IDF, he was employed as a Senior Policy Advisor by Copa-Cogeca, the EU farmers and agricultural cooperative's umbrella organisation, for a wide range of livestock industries, focusing on "farm to fork" dairying. His last undertaking in Copa-Cogeca was the organisation of a dedicated workshop on the mitigation of greenhouse gas emissions from livestock productions.

Stan's experience and skills, including his wide range of languages, are sure to help IDF enhance efforts to promote a dynamic and sustainable dairy sector.

I would like to thank you all for your fruitful collaboration and support in 2010 and look forward to sharing new success stories with in 2011!

Contact: [Christian Robert](#), IDF Director General.

Help us improve the quality of the IDF Newsbrief.

Please take the time to answer our short survey (<http://www.fil-idf.org/Survey/Newsbrief77>) but please read this new issue before doing so.

## IDF PROGRAMME OF WORK

### Dairy science and technology

This section provides you with highlights from our Federation's programme of work.

### Dairy science and technology

*Update on the Standing Committee on Dairy Science and Technology (SCDST)*

The SCDST reviewed current progress on preparation of forthcoming events:

- IDF International Symposium on Sheep and Goats Milk (IDF Dairy Science and Technology Week 2011), Athens (GR), 16-18 May 2011,
  - IDF International Symposium on Cheese Ripening and Technology/IDF Dairy Science and Technology Week 2012, Madison, Wisconsin (USA), 20-24 May 2012,
  - IDF/INRA International Symposium on Spray Dried Dairy Products", France, 19-22 June 2012
  - and IDF World Dairy Summit Parma (IT), 15-19 October 2011 – dairy science and technology conference
- New work on "Salt in the manufacturing process of cheese" was approved by IDF National Committees and has started with an active group of experts.
  - New work items under consideration include: the development of a monograph on lactose; a 5th IDF Symposium on Science and Technology of Fermented Milk; and a 2nd IDF Symposium on Microstructure of Dairy Products.
  - An Action Team was created to support the development of the Dairy Science and Technology conference programme, focusing on dairy ingredients technology and recombination, at the IDF World Dairy Summit, South Africa, 8 November 2012.
  - SCDST offered its expertise for the conference programme on dairy science and technology at the IDF World Dairy Summit 2013, to be held in Yokohama, Japan. Milk protein biofunctionality was suggested as a possible topic.
  - The SCDST will produce facts sheets on processing milk, milk fat – structure/stability, cheese ripening – evolution of cheese, and Cheese varieties.
  - The SCDST proposed to change the title "IDF Dairy Science and Technology Week" to "IDF Dairy Science and Technology Forum".

### Environment

### Environment

*Update on the Standing Committee on Environment (SCENV)*

- Liaison with the IDF SC Nutrition and Health - work on Dairy Nutrition and Environmental Sustainability: SCENV members are planning to propose sustainability issues to the Action team and will fully support the achievement of environmental sustainability project objectives.
- Life Cycle Analysis/Life Cycle Management and Carbon Footprint in the Dairy Sector: IDF will continue to collect case studies demonstrating how this Guide has helped users measure, manage and reduce their carbon footprint. This will emphasize opportunities that effective carbon management can bring to stakeholders along the global dairy value chain.
- Completion of work: Effluent treatment and removal of salts - two fact sheets had been finalized and Dust emissions from dairy plants - the draft will be finalized in due course with anticipated IDF publication prior to the next IDF WDS 2011.
- New work: IDF NCs shall receive voting circulars on the following 3 items in due course: - Life Cycle Assessment development Monitoring Group; Biodiversity footprint of dairy products; Water Footprint of Dairy Products. With regard to the latter, it was agreed that IDF should join and actively contribute to the new ISO water footprint group's work on ISO/TC 207/SC 5/WG 8.
- Discussion paper on Product Category Rules (PCR) for Milk and Dairy Products: Participants at the meeting agreed that IDF should focus on completing a more encompassing (wider than GHG) LCA methodology instead of new PCRs. This could then act as the dairy sector's PCR. The new LCA Monitoring Group will take the lead.
- Conference "The Global Environmental Footprint of Dairy Products" will take place during IDF WDS Parma 2011, organized jointly with FAO. A draft programme will be available shortly.
- Future strategy of SCENV: A brainstorming to further identify and explore the future environmental issues for the dairy sector is being planned. The idea is to build a pro-active road map for the SCENV regarding the environmental sustainability issues facing the dairy industry. A two-days workshop has been proposed.

## Farm Management

### *Update on the Standing Committee on Farm Management (SCFM)*

- Revision of the IDF/FAO Guide to Good Dairy Farming Practice (2004) and IDF/FAO Guide to Hygienic Practices at Farm Level and in Milk Production: two separate documents will be developed with the revised IDF/FAO Guide, including new socio-economic elements.
- Communication – Fact Sheets: IDF shall provide more information about dairy farming and its importance for society as a whole, targeting the public-at-large. The proposed fact sheets will explain very basic issues about dairy farming and animal welfare, and underline the importance of the dairy farmer in general.
- Proposed new work on Survey on Payment systems for ex farm milk: A group will finalize the NWI draft proposal in prior to circulation for voting to IDF National Committees.
- Proposed new ISO New Work Item proposal titled "Prerequisite programmes on food safety for primary production - Recommendation on Good Hygienic Practices on Farm": IDF shall comment on the ISO NWI proposal by supplying additional references of importance to the dairy sector. IDF should participate in the new ISO working group, in case the ISO NWI would be adopted by ISO member bodies, to ensure consistency with well established documents of Codex and IDF/FAO.
- Global dairy farmers roundtable/dairy supply chain issues during the IDF WDS Parma 2011: The Global Dairy Farmers event is likely to take place as a satellite event to the IDF WDS on 15 October 2010. The global dairy roundtable on supply chain issues will take place as part of the IDF WDS programme following the World Dairy Leaders Forum.
- Election of the Chair and Deputy Chair: David Homer (GB) current Chair, and Deputy Chair, Dr. Réjean Bouchard (CA) were re-elected respectively for a second and last two-year term of office.

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## Animal Feeding

### *Update on the Task Force on Animal Feeding (TFAF)*

- Codex work on food safety aspects related to animal feeding: SCRCC will take internal lead with regard to IDF monitoring and input to the new Codex ad hoc Intergovernmental Codex Task Force on Animal Feeding, in close liaison and with the Task Force on Animal Feeding.
- Inventory of methods of analysis for the evaluation of changes of milk composition with regard to animal feeding changes: A survey involving experts from the IDF/ISO analytical area will help identify additional relevant analytical methods, including non-standardized methods.
- World mapping of animal feeding systems in the dairy sector: the draft survey questionnaire will be finalized and circulated to IDF NCs in early 2011. The project now includes IDF, IFCN and FAO with support from the animal feed industry.
- Conference on animal feeding during IDF World Dairy Summit in Parma (Italy), 15-19 October 2011: to be organized jointly with FAO. A draft programme will be available soon.

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## Food Additives

### *Update on the Standing Committee on Food Additives (SCFA)*

- Transfer of food additives provisions between commodity standards and the Codex General Standard for Food Additives (GSFA): The Codex Committee on Food Additives electronic working group on "alignment of food additives provisions" is now considering principles with meat standards as an example. IDF experts can include experiences from comparisons of provisions for dairy standards with the GSFA.
- The SCFA reviewed IDF comments on specific food additives provisions for dairy products and finalized the IDF input to the revision of the Codex Class Names and International Numbering System (INS).
- Some additives may no longer be allowed in processed cheese products due to the revocation of Codex standards on Processed Cheese. A survey involving both experts of the Standing Committee on Food Additives and the Standing Committee on Standards of Identity will determine if the additives identified are currently used in processed cheese making, and therefore whether or not IDF should request the additives inclusion in the GSFA.
- A new chair, Michael Hickey (IE), was elected for his first two-year term. The position of deputy chair remains vacant.

## Food Labeling and Terminology

### *Update on the Standing Committee on Food Labeling and Terminology (SCFLT)*

- SCFLT reviewed preparations for the next Codex Committee on Food Labeling (CCFL) meeting in 2011 as well as items related to CCFL implementation of the WHO Global Strategy on Diet, Physical Activity and Health. CCFL is in the process of revising the Codex Guidelines on Nutrition Labeling concerning the list of nutrients declared on a voluntary or mandatory basis. SCFLT is preparing IDF's input, including: agreement on the four basic nutrients to be declared (energy, protein, available carbohydrate, and fat); differentiation of individual saturated fatty acids; considering declaration of TFA on nutrition labels of foods that contain industrially produced TFA; opposing salt and salt equivalent labeling in the nutrition declaration; and opposing labeling of total sugars.
- Several actions regarding labeling provisions for food ingredients identified in the WHO Global Strategy are proposed on additional conditions for nutrient content claims and comparative claims, consideration of the use of standardized symbols, and mandatory nutrition labeling. The EWG discussion document on New Entries and Amendments to the Table of Conditions in the Guidelines for the Use of Nutrition and Health Claims is currently being reviewed.
- The CCFL Discussion paper on Modified Standardized Common Names (CCMMP provided input), will be discussed at the next CCFL session. IDF will monitor developments on this issue and provide input when required.

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## Standards of Identity

### *Update on the Standing Committee on Standards of Identity (SCSID)*

- Recent developments at the Codex Committee on Milk and Milk Products and the Codex Alimentarius Commission on possible regional standardization of processed cheese and the fermented products ayran and doogh. The SCSID agreed to set up two action teams to monitor developments in Codex regional Committees meetings. The main task of the AT on Processed cheese would be to reinforce or modify its existing position for the CAC 2011 according to the outcome of regional meetings. The AT on ayran and doogh will ensure that the regional standards to be developed do not to infringe on the current Codex standards on fermented milk.
- The SCSID is also developing a fact sheet on International standards as well as considering new work on establishing an Inventory of legislation related to standards of identity of dairy products.
- An action team has also been set up to review objectives and current priorities of the SCSID in view of the recent adjournment of CCMMP.

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## Microbiological Hygiene

### *Update on the Standing Committee on Microbiological Hygiene (SCMH)*

- An Action Team is preparing an IDF Monograph on "Practical application and implementation of the new metrics for microbiological risk management in the dairy food chain", as a follow up of the IDF/FAO Symposium on Revolution in Food Safety Management, 13-15 February 2008, Bali, Indonesia. The paper shall include practical examples on how new metrics are applied.
- The first complete draft on Significance of Shiga-toxigenic E coli (STEC) in dairy production was made available only one year after the work started and therefore shall be finalized shortly for approval by IDF NCs. The paper will be either published in a peer-reviewed journal or in the IDF Bulletin.
- The SC reviewed the input to CCFH Revision of the Codex Principles for the Establishment and Application of Microbiological Criteria for Foods, and agreed to monitor another CCFH work item on "Guidelines for management of viruses in food".
- An Action Team will gather factual information for guidance and precautions on the use of lactoperoxidase system particularly from the dairy industry technical perspective and safety stand point.
- Fact sheets: The SC has finalized a first fact sheet on "Extended Shelf Life" and is now working on lactoperoxidase system, STEC, and listeria.
- The preliminary programme of the food safety conference on Sustainable Food Security – the need for prudent use of antimicrobials at the IDF World Dairy Summit Parma (IT) 15-19 October 2011 was reviewed by SCMH members.

## Residues and Chemical Contaminants

### *Update on the Standing Committee on Residues and Chemical Contaminants (SCRCC)*

- The guide on Prudent Use of veterinary drugs in the dairy chain is close to finalization with inclusion of terminology from the Codex TF on antimicrobial resistance (TFAMR) draft Guidelines for Risk Analysis of Foodborne Antimicrobial Resistance, and a description of screening methods available, in collaboration with SCAMAC.
- The SCRCC discussed its strategy based on risk profiling to determine future work. An action team is developing a workshop to discuss a new methodology to prioritize issues to be handled by the SCRCC.
- The paper on Promoting the development of integrated chain management for food safety in the dairy production chain was finalized and will be published together with the outcome paper from the IDF Task Force on Inventory of methods and procedures to monitor the integrity of supplier's milk and a scientific paper on infrared technology.
- Codex Committee on Contaminants in Foods (CCCF), Izmir, Turkey, April 2010: a proposed maximum level of 0.5 mg/kg for melamine in liquid infant formula was circulated for comments. Based on replies received, IDF commented against this level which is not aligned with the level in powdered infant formula (1mg/kg).
- Fact sheets: The SCRCC is currently working on two fact sheets on mycotoxins and on dioxins, together with the IDF Head Office.
- An Action team was created to make suggestions regarding the programme of the food safety conference at the IDF World Dairy Summit 2012 Cape Town, South Africa, 3-9 November 2012.

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## Inventory of Microorganisms with a documented history of use in foods (TF)

The Task Force is developing the paper 'Micro-organisms with beneficial use in foods' to be submitted to the International Journal of Food Microbiology. The paper is an update of the IDF Bulletin 377 (2002) and will include an update of the inventory of microorganisms with a documented history of their use in foods. The purpose of the proposed work is to update the 2002 inventory to take into account the evolution of the taxonomy, and to add newly-described species which do not appear in the 2002 inventory. The paper will provide historical evidence on use. Although the decision whether an organism is safe or not will be taken by authorities, the assumption that particular species are safe because of their long history of safe use in food would avoid the need for a full risk assessment of these species. This helps to avoid duplication of work and greatly benefits the dairy sector. An abstract of the paper will be submitted for presentation to several international meetings including the World Dairy Summit 2011.

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## Nutrition and Health

### *Update on the Standing Committee on Nutrition and Health (SCNH)*

The SCNH reviewed the work programme's progress. The following information captures some key items.

- The new work item proposal on Dairy nutrition and environmental sustainability, to be carried out together with the SCENV and other partners, has been sent to NCs for endorsement together with a request for nutrition data.
- The AT on FAO/WHO Fats and Oils Review is developing a network of speakers with the aim of getting speakers on milkfat into general international nutrition conferences, such as the International Dietetics Conference in Sydney 2012.
- The New Work item 'Plasticity of a given probiotic strain in different food forms' has been adopted and an electronic discussion on the subject has started.
- The papers for the Special Issue 'Nutrition and health aspects of lactose and its derivatives' have been submitted to the International Dairy Journal (IDJ). Publication is expected mid 2011.
- SCNH considered newly proposed work on Vitamin K2 in fermented dairy products and agreed that a kick-off meeting could be held to further discuss and develop the proposal before SCNH approval/disapproval.
- FAO will hold a symposium on 'Dietary Protein for Human Health' on 27-30 March 2011 in Christchurch, New Zealand as well as a FAO Expert Consultation on dietary protein quality on 31 March - 2 April 2011. SCNH agreed to set up an Action Team on Proteins to develop an IDF briefing/position on protein issue and provide input in the FAO Expert Consultation, if possible.
- SCNH also set up an Action Team to develop a strategy to improve the monitoring and follow up of WHO and FAO Nutrition Activities, such as nutrient profiling.

Contact: [Joerg Seifert](#), IDF Technical Director

## RELATIONS WITH INTERNATIONAL ORGANIZATIONS

### Codex Committee on Nutrition and Foods for Special Dietary Uses, Santiago (CL), 1-5 November 2010

An IDF delegation participated in the meeting which discussed the following main items of interest for the dairy sector:

- **Additional or revised Nutrient Reference Values (NRVs) for Labeling Purposes in Codex Guidelines on Nutrition Labeling.** The general principles were agreed. With regard to the potential numerical NRV values for vitamins and minerals, the Committee considered that data currently in use are out of date and FAO and WHO were requested to provide scientific information on the need to update the data. Potassium and sodium were added to the list of nutrients covered. IDF will provide input and participate in the physical working group that will be organized prior to the next CCNFDSU session to make progress on the numerical values of vitamins and minerals.
- **Nutrient Reference Values for Nutrients Associated with Risk of Non communicable Diseases for the General Population.** The discussion document will be revised to include work on NRVs for sodium/salt and saturated fat. IDF will provide comments and participate in the working group. Regarding NRVs for nutrients associated with risk of non communicable disease, a discussion on the selection of nutrients to be covered and whether the evidence should be 'probable' or 'convincing' or both took place. At the CCNFDSU meeting IDF confirmed its preference for 'convincing evidence' to substantiate the relationship between a nutrient and a risk for non-communicable disease in order to restrict the possibility of identifying nutrients as linked to NCD (because there is a possibility that these nutrients will be identified on the label as NRV – NCD).
- **Addition of essential nutrients to foods.** An Electronic Working group will continue the work on how to address principles with regard to voluntary and mandatory fortification. A physical working group will work before the next session of the Committee. Issues of concern for the dairy sector are: covering of health effects over those preventing deficiency, potential inclusion of nutrient profiling, and conditions for foods containing 'risk-increasing nutrients'.
- **Supplementary foods for older infants and young children.** The proposed Draft Guidelines will be redrafted electronically by a working group. IDF will participate and provide input, in particular on the sections 'Fats and Oils' regarding TFA, and the section on 'Milk and/or milk products'.

For more information, please see the ALINORM REP 11/NFSDU <http://www.codexalimentarius.net> or the IDF Observers' report which is available from the IDF Intranet.

Contact: [Sandra Tuijelaars](#), IDF Nutrition Officer

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### Codex Committee on Food Hygiene

The 42nd CCFH Session took place in Kampala, Uganda from 29 November to 3 December 2010. IDF was represented by Olivier Cerf (FR) and Jörg Seifert (IDF).

**Definition of "Hazard":** It was concluded that there was no need to revise it or to include an additional footnote. IDF supports continued consistency of the Codex/regulators use of a key term in Risk Analysis which underpins the concept of food safety in the food chain.

**Matters arising from FAO/WHO:** New on-line decision-support tools for microbiological food safety control were introduced. IDF members and experts are asked to take note of on-going FAO/WHO work to provide on-line tools for risk managers to facilitate the implementation of appropriate food safety control measures in relation to the resulting relative risk and to assess the performance of microbiological sampling plans.

**Proposed Draft Principles for the Establishment and Application of Microbiological Criteria for Foods:** The document was returned to Step 2 for further development by a physical working group, which will meet in Brussels in 2011. The revised version will be circulated at Step 3 for country comments prior to the next CCFH session. The issue of application of CCFH Principles for establishing and applying microbiological criteria (MC) for foods is of paramount interest to the dairy industry and IDF will remain actively involved.

**Codex Guidelines on the Application of General Principles of Food Hygiene to the Control of Viruses in Food:** Although the specific draft annexes pertaining to control of hepatitis A virus (HAV) and norovirus (NoV) in bivalve mollusks and fresh produce (identified food safety concerns related to viruses), are of no direct relevance to the dairy sector. However, the scope of Codex Guidelines refers to application to all foods throughout the food chain, from primary production through consumption, with a focus on ready-to-eat-food, and are necessary to control human enteric viruses in foods. IDF SCMH should monitor and provide input as needed, including participation at the CCFH electronic Working Group led by the Netherlands.

The meeting provided the IDF delegates with an excellent opportunity to network with African delegations in support of the on-going IDF membership campaign, as well as promoting the future IDF World Dairy Summit Cape Town 2012. IDF was encouraged to place greater emphasis on developing its regional membership and activities.

Next Meeting: 5 to 9 December 2011, USA.

Contact: [Joerg Seifert](#), IDF Technical Director

## PROMOTION OF IDF

### International School Milk Conference, Vung Tau (Vietnam), 25-26 November 2010

Many countries such as Indonesia, Malaysia, Thailand, and Pakistan participated in this successful International School Milk Conference in Vietnam. It was organized by Tetrapak in collaboration with local authorities from the Ba Ria Vung Tau province.



*Sandra Tuijelaars, IDF Nutrition Officer, speakers and Indonesian participants at the International School Milk Conference*

The Ba Ria Vung Tau province (BVRT) was the first province in Vietnam to introduce a school milk programme for three-to-six-year-old children. The conference highlighted the need for a national school milk programme in Vietnam, and participants shared learning and best practices from the BVRT with additional provinces in Vietnam and other countries that might consider introducing such a programme. Global learning and experiences as well as best practices related to job creation, industrial development and improved nutritional status among school-going children were shared also.

Sandra Tuijelaars (IDF Nutrition Officer) presented IDF and gave the key note lecture 'Nutrition and Milk Benefits to Children's Mental and Physical Health'.

Contact: [Sandra Tuijelaars](#), IDF Nutrition Officer

## Chile

After the World Dairy Summit in Auckland, Christian Robert attended a meeting in Chile with the national dairy chain and representatives of several stakeholders' groups including the newly formed National Committee of Chile. Fruitful discussions took place resulting in the setting up of both a working and an operations committee. The visit was also the opportunity to give an interview to the local press.



*IDF President and IDF Director General with the Chilean National Committee of IDF at the IDF World Dairy Summit in Auckland*

Contact: [Christian Robert](#), IDF Director General

## IDF EVENTS

### IDF/ISO Analytical Week 2011

22-27 May 2011, Lyon, France

This year, the IDF/ISO Analytical Week is hosted by the French IDF National Committee in Lyon, France from the 23 to 27 May 2011.

The website, <http://www.idf-iso-analytical-week.org>, is regularly updated with information on the **schedule of the week**, and **online registration** will be available **early February** with **online payment** by credit card.

**The IDF/ISO Symposium** held on the **Wednesday 25 May 2011** morning will focus on **Laboratory services and sustainability in the dairy chain**.

The venue is the **Hotel Lyon Métropole** and participants are invited to make their booking early. A **preferential room rate** is offered to participants including **breakfast, free internet wireless**.

Contact: [Aurélie Dubois](#), IDF Standards Officer

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## IDF World Dairy Summit 2011

15-19 October 2011, Parma, Italy



### *CALL FOR PAPERS AND POSTERS*

#### **Conference on Novel Technologies for Sustainable Dairy Products**

IDF World Dairy Summit Parma/IT, 15-19 October 2011

The dairy science and technology conference of the IDF WDS 2011 will present the latest research on technologies and approaches for sustainable processing technologies to create products for enhanced consumer satisfaction.

Submissions for abstracts are now open! Please submit your abstract by e-mail to Dr. Milena Corredig, Chair of the Programme Committee of the Conference. Email: [mcorredi@uoguelph.ca](mailto:mcorredi@uoguelph.ca)

Deadline for submissions is **10 March 2011**.

For more details, please visit: <http://www.wds2011.com/>

## **IDF PUBLICATIONS**

### **Bulletins of the month**

#### **Bulletin of the IDF No. 445/2010 - A common carbon footprint approach for dairy - The IDF guide to standard lifecycle assessment methodology for the dairy sector**

This new methodology, based on the best available science and current international standards, enables dairy sector stakeholders worldwide to produce consistent and comparable data on their carbon footprint. Such robust measurement will enable effective management and reduction of GHG emissions within the sector.

The Guide has been developed under the leadership of the IDF Standing Committee on Environment (SCENV) in close collaboration with the Food and Agriculture Organization of the United Nations (FAO) and the Sustainable Agriculture Initiative Platform (SAI Platform).

#### **Bulletin of the IDF No. 446/2010 - The World Dairy Situation 2010**

This updated edition is the result of close collaboration between experts and key organisations around the globe and within the IDF. Its contents, including statistics on production, consumption and trade in all regions of the world, as well as specific observations from IDF member countries, will help the reader to better understand and deal with the many challenges and opportunities facing the global dairy market.

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### **Joint IDF-ISO standards**

#### **IDF/RM 230:2010 - ISO/TS 15495 - Milk, milk products and infant formulae - Guidelines for the quantitative determination of melamine and cyanuric acid by LC-MS/MS**

IDF and the International Organization for Standardization (ISO) have developed a new test standard to determine the content of melamine and cyanuric acid in liquid milk, powdered milk products and infant formulae.

This new ISO/IDF TS gives guidance on sampling, test procedures, performance and examples.



### **International Dairy Federation**

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The International Dairy Federation is the pre-eminent source of scientific and technical expertise for all stakeholders in the dairy chain. Membership covers 56 countries and is growing; IDF accounts for about 85% of the world's total milk production. IDF aims to identify and disseminate best practice at the international level, in order to guide and harmonise members' work on issues including climate change, nutrition and food hygiene at the national level.

**The scientific expertise for the dairy sector worldwide**